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Judy Jarecki-Black, Ph.D., J.D.

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:
Nelson Horseman and Scott Pratt)
Serial No: 10/099,663)
Filing Date: March 14, 2002)
Title: "Gut-Specific Gene Expression)
In Transgenic Avians")

Docket No: AVI 021

Art Unit: 1645

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Commissioner of Patents and Trademarks
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Sir:

INFORMATION DISCLOSURE STATEMENT

Applicants hereby voluntarily disclose the items listed on the attached Form PTO-1449 to the Assistant Commissioner for Patents. A copy of each of these documents is provided herewith.

Applicants further reserve the right to establish the patentability of the claimed invention over any of the listed information should they be applied as references, and/or to prove that some of the cited information may not be prior art, and/or to prove that some of the cited information may not be enabling for the teachings they purport to offer. This statement further should not be construed as a representation that an exhaustive search has been made, or that the information cited herewith is material, or that there does not

exist information more material to the examination of the present Application. The Examiner is specifically requested not to rely solely on the information submitted herein. On the contrary, the Examiner is requested to conduct an independent and thorough review of the information, and to form independent opinions as to their significance.

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449 and to indicate in the official file wrapper of the above-identified patent application that each item of the cited information has been considered. A second copy of the PTO-1449 is enclosed for the Examiner's convenience.

The Examiner is invited to contact the undersigned at his convenience should any issues remain following entry of this response.

If any fee or extension of time is required to obtain entry of this Response, the undersigned hereby petitions the Commissioner to grant any necessary time extension and authorizes charging Deposit Account No. 501729 for any such fee not submitted herewith.



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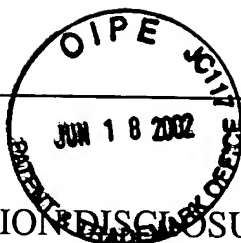
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Form PTO-1449



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Attorney Docket No.
AVI-021Serial No.
10/099,663

INFORMATION DISCLOSURE CITATION

Applicant
Nelson Horseman and Scott Pratt

(Use several sheets if necessary)

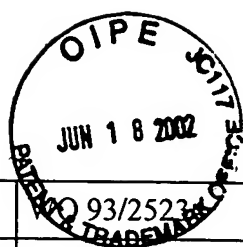
Filing Date
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1645

U.S. PATENT DOCUMENTS

Examiner Initials	Item	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	A	5,591,639	01-07-97	Bebbington, Christopher R.			09-02-1994
	B	5,162,215	11-10-92	Bosselmann <i>et al.</i>			09-22-1988
	C	4,833,080	05-23-89	Brent <i>et al.</i>			12-12-1985
	D	4,237,224	12-02-80	Cohen <i>et al.</i>			01-04-1979
	E	5,580,859	12-03-96	Felgner <i>et al.</i>			03-18-1994
	F	5,589,466	12-31-96	Felgner <i>et al.</i>			01-26-1995
	G	5,175,384	12-29-92	Krimpenfort <i>et al.</i>			12-05-1988
	H	4,603,112	07-29-86	Paoletti <i>et al.</i>			12-08-1982
	I	4,722,848	02-02-88	Paoletti <i>et al.</i>			06-19-1984
	AA	4,769,330	09-06-88	Paoletti <i>et al.</i>			12-24-1981
	BB	5,174,993	12-29-92	Paoletti <i>et al.</i>			06-14-1990
	CC	5,338,683	08-16-94	Paoletti <i>et al.</i>			04-04-1990
	DD	5,494,807	02-27-96	Paoletti <i>et al.</i>			08-12-1993
	EE	5,505,941	04-09-96	Paoletti <i>et al.</i>			07-22-1992
	FF	6,156,569	12-05-00	Ponce de León <i>et al.</i>			08-04-1997

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
	J	WO 94/11524	11-09-92	PCT				X
	K	WO 99/19472	10-16-97	PCT				X



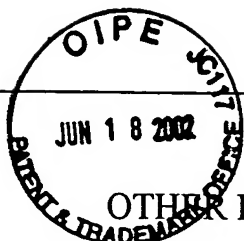
	L	WO 93/25223	06-08-92	PCT				X
	M	WO 97/47739	06-12-96	PCT	RECEIVED			X
	N	WO 94/06920	09-22-92	PCT	JUN 24 2002			X
	AA	WO 92/22635	06-05-91	PCT	TECH CENTER 1600/2900			X
	BB	WO 92/20316	05-14-91	PCT				X
	CC	WO 92/19749	05-03-91	PCT				X
	DD	WO 93/04701	09-05-91	PCT				X
	EE	WO 92/06180	10-01-90	PCT				X
	FF	WO 87/05325	03-03-86	PCT				X
	GG	WO 99/42569	02-22-98	PCT				X

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

	O	Cloning of a cDNA Encoding Rat Intestinal Fatty Acid Binding Protein, <u>Alpers et al</u> ; Proc. Natl. Acad. Sci USA 81:313-317(1984)
	P	Consecutive Events of Growth, Differentiation and Death of the Small Intestinal Epithelial Cell Line, IEC-6, <u>Ametani et al</u> ; In vitro Cell Dev. Biol. Anim. 32:127-130 (1996)
	Q	Intestinal Fatty Acid Binding Protein Gene Expression Reveals the Cephalocaudal Patterning During Zebrafish Gut Morphogenesis, <u>Andre et al</u> ; Int. J Dev. Biol; 44:249-252 (2000)
	R	Gut specific expression using mammalian promoters in transgenic <i>Xenopus laevis</i> , <u>Beck et al</u> ; Mech. Dev. 88:221-227 (1999)
	S	Cellular and molecular aspects of fat metabolism in the small intestine, <u>Besnard et al</u> ; Proc. Nutr. Soc. 55:19-37 (1996)
	T	Suppression subtractive hybridization: A method for generating differentially regulated or tissue-specific cDNA probes and libraries, <u>Diatchenko et al</u> ; Proc. Natl. Acad. Sci. USA 93:6025-6030 (1996)
	U	Suppression Subtractive Hybridization: A Versatile Method for Identifying Differentially Expressed Genes, <u>Diatchenko et al</u> ; Methods in Enzymology 303:349-380 (1999)
	V	Regulation of cholesterol esterification by micellar cholesterol in CaCo-2 cells, <u>Field et al</u> ; J. Lipid Res. 28:1057-1066 (1987)
	W	Distinct Functions Are Implicated for the GATA-4,-5, and -6 Transcription Factors in the Regulation of Intestine Epithelial Cell Differentiation, <u>Gao et al</u> ; Mol. Cell Biol. 18:2901-2911 (1998)
	X	The Nucleotide Sequence of Rat Liver Fatty Acid Binding Protein mRNA, <u>Gordon et al</u> ; J. Biol. Chem. 258:3356-3363 (1983)

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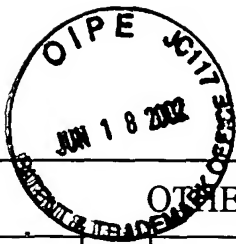
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

Y	The Mouse Intestinal Fatty Acid Binding Protein Gene: Nucleotide Sequence, Pattern of Developmental and Regional Expression, and Proposed Structure of Its Protein Product, <u>Green et al</u> ; DNA Cell Biol. 11:31-41 (1992)
Z	Structure and Localization of the Gene Encoding Human Peripheral Myelin Protein 2 (PMP2), <u>Hayasaka et al</u> ; Genomics 18:244-248 (1993)
AA	A Review of Intestinal Fatty Acid Binding Protein Gene Variation and the Plasma Lipoprotein Response to Dietary Components, <u>Hegele, R.A.</u> ; Clin Biochem. 31:609-612 (1998)
BB	Activation of a member of the steroid hormone receptor superfamily by peroxisome proliferators, <u>Isseemann et al</u> ; Nature 347:645-650 (1990)
CC	Fibronectin Synthesis by Epithelial Crypt Cells of Rat Small Intestine, <u>Quaroni et al</u> ; Proc. Natl. Acad. Sci. USA 75:5548-5552 (1978)
DD	Comparison of the Patterns of Expression of Rat Intestinal Fatty Acid Binding Protein/Human Growth Hormone Fusion Genes in Cultured Intestinal Epithelial Cell Lines and in the Gut Epithelium of Transgenic Mice, <u>Rottman et al</u> ; J. Biol. Chem 268:11994-12002 (1993)
EE	Expression of rat intestinal fatty acid binding protein in <i>E. coli</i> and its subsequent structural analysis: a model system for studying the molecular details of fatty acid-protein interaction, <u>Sacchettini et al</u> ; Mol. Cell. Biochem. 98:81-93 (1990)
FF	Cell Migration Pathway in the Intestinal Epithelium: An In Situ Marker System Using Mouse Aggregation Chimeras, <u>Schmidt et al</u> ; Cell 40:425-429 (1985)
GG	Fatty acid binding protein isoforms: structure and function, <u>Schroeder et al</u> ; Chem Phys. Lipids; 92:1-25 (1998)
HH	Thyroid Hormone-Dependent Regulation of the Intestinal Fatty Acid-Binding Protein Gene during Amphibian Metamorphosis, <u>Shi et al</u> ; Dev. Biol 161:48-58 (1994)
II	Isolation and expression of a cDNA for human brain fatty acid-binding protein (B-FABP), <u>Shimizu et al</u> ; Biochim Biophys Acta. 1354:24-28 (1997)
JJ	A 20-nucleotide element in the intestinal fatty acid binding protein gene modulates its cell lineage-specific, differentiation-dependent, and cephalocaudal patterns of expression in transgenic mice, <u>Simon et al</u> ; Proc. Natl. Acad. Sci. USA 92:8685-8689 (1995)
KK	The Human and Rodent Intestinal Fatty Acid Binding Protein Genes. A Comparative Analysis of Their Structure, Expression, and Linkage Relationships, <u>Sweetser et al</u> ; J. Biol. Chem. 262:16060-16071 (1987)
LL	Transgenic Mice Containing Intestinal Fatty Acid-Binding Protein-Human Growth Hormone Fusion Genes Exhibit Correct Regional and Cell-Specific Expression of the Reporter Gene in Their Small Intestine, <u>Sweetser et al</u> ; Proc. Natl. Acad. Sci. USA 85:9611-9615 (1988)



OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, etc.)</i>		
	MM	Mechanisms underlying generation of gradients in gene expression within the intestine: an analysis using transgenic mice containing fatty acid binding protein-human growth hormone fusion genes, <u>Sweetser <i>et al</i></u> ; Genes Dev. 2:1318-1332 (1988)

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